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### **CLAIMS**

1. (Previously presented) A system for interfacing with an implanted medical device, the system comprising:

a microphone;

a speech recognition circuit coupled to the microphone and adapted to recognize an audio signal from the microphone, the audio signal corresponding to one of a subset of commands from a set of commands and each command corresponding to a task to be performed on the implanted medical device, the speech recognition circuit further adapted to convert the audio signal into a selection code and match the selection code to one of the subset of commands;

a display device;

a processor arrangement coupled to the speech recognition circuit, to the display device, and in communication with the implanted medical device, the processor arrangement configured to receive data indicative of an implanted medical device state from the implanted medical device and automatically select the subset of commands as a function of the device state, the processor arrangement configured to display the device state data and the subset of commands, and generate a control signal in response to the selection code match; and

a medical data processing instrument coupled to the processor arrangement and adapted to, in response to the control signal, execute the one of the subset of commands and to display data generated in response to execution of the one of the subset of commands.

2. (Original) The system of claim 1, further including a bandpass amplifier circuit coupled to the microphone and adapted to reject ambient background noise signals that are not speech generated.

3. (Original) The system of claim 1, further including a noise suppression circuit coupled to the microphone and adapted to produce a noise-suppressed speech signal in response to noise suppression information received from the microphone.

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4. (Original) The system of claim 1, wherein the speech recognition circuit further includes a memory arrangement configured to store the set of commands and the device state data and adapted to be accessed by the processor upon recognition of the audio signal received from the microphone.
5. (Original) The system of claim 4, wherein the memory arrangement is adapted to store the subset of commands corresponding to at least one of a plurality of implanted device states.
6. (Original) The system of claim 4, wherein the speech recognition circuit further includes a control signal circuit adapted to generate control signals for the medical data processing instrument in response to the selection code match.
7. (Original) The system of claim 1, wherein the medical data processing instrument includes a pacing system analyzer.
8. (Original) The system of claim 1, wherein the medical data processing instrument includes an implanted medical device programming unit adapted to interrogate and program the implanted device.
9. (Original) The system of claim 1, wherein the display includes a display screen adapted for use by a user of the medical data processing instrument and coupled to the speech recognition circuit and the processor arrangement.
10. (Original) The system of claim 9, wherein the microphone is a unidirectional microphone mounted on the display screen and coupled to the medical data processing instrument, thereby reducing background noise.

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11. (Original) The system of claim 1, wherein the microphone is a unidirectional microphone arrangement adapted to be donned and steered by a user of the medical data processing instrument, thereby reducing background noise.
12. (Original) The system of claim 10, wherein the microphone is adapted to be directionally steered by a user of the medical data processing instrument for improved audio signal clarity.
13. (Original) The system of claim 4, wherein the speech recognition circuit and the processor are adapted to interact with a user to generate the set of commands to be stored in the memory arrangement.
14. (Original) The system of claim 13, wherein the processor is adapted to receive and validate the user via a user selection code, the user selection code providing access to differing levels of commands for controlling the data processing instrument.
15. (Original) The system of claim 1, further comprising an audio circuit coupled to the speech recognition circuit configured and arranged to produce an audio signal confirming receipt of a voice selected command from the subset of commands.
16. (Original) The system of claim 15, wherein the audio circuit is configured and arranged to produce an audio signal representing the device state with the subset of commands.
17. (Original) The system of claim 1, further comprising an audio circuit coupled to the speech recognition circuit configured and arranged to reproduce and repeat a voice selected command and to produce an audio signal confirming execution of the voice selected command.

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18. (Original) The system of claim 1, wherein the speech recognition circuit is coupled to the medical data processing instrument via a communications network.

19. (Previously presented) A system for interfacing with an implanted medical device, the method comprising:

- means for receiving data indicative of an implanted medical device state from the implanted medical device;

- means for selecting a subset of commands from a set of commands for performing tasks on the implanted medical device, the subset being selected by the system as a function of the device state communicated from the implanted medical device;

- means for displaying the device state data along with the subset of commands;

- means for converting an input audio signal from a microphone into a selection code, the input audio signal corresponding to one of the subset of commands;

- means for matching the selection code to one of the subset of commands;

- means for executing the one of the subset of commands; and

- means for receiving data generated by a medical data processing instrument in response to execution of the one of the subset of commands.

20. (Previously presented) A method for interfacing with an implanted medical device, the method comprising:

- receiving data indicative of an implanted medical device state from the implanted medical device;

- selecting a subset of commands from a set of commands for performing tasks on the implanted medical device, the subset being automatically selected by a processor based on the received device state data;

- displaying the device state data along with the subset of commands;

- converting an input audio signal from a microphone into a selection code, the input audio signal corresponding to one of the subset of commands;

- matching the selection code to one of the subset of commands;

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executing the one of the subset of commands; and  
receiving data generated by a medical data processing instrument in response to  
execution of the one of the subset of commands.

21. (Original) The method of claim 20, wherein the step of executing the one of the  
subset of commands includes the step of validating speech sets received via a memory  
arrangement coupled to the processor, the memory arrangement having the set of  
commands stored therein.

22. (Original) The method of claim 20, further comprising the step of producing an  
audio signal representing the device state with the subset of commands before the step  
of executing the one of the subset of commands.

23. (Original) The method of claim 20, further comprising the step of suppressing  
noise from the input audio signal before converting the audio signal into a selection  
code.

24. (Original) The method of claim 20, further comprising the steps of:  
configuring the set of commands via a plurality of voice commands provided by a user  
of the medical data processing instrument before the step of receiving data indicative of  
the device state; and  
storing the set of commands in a memory arrangement for display.

25. (Original) The method of claim 24, further comprising the step of receiving and  
validating a user via a user selection code, the user selection code providing access to  
differing levels of commands for controlling the processing instrument before the step of  
receiving the voice selected command.

26. (Previously presented) A method for controlling a medical data processing  
instrument that interfaces with an implanted medical device, the method comprising:

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receiving data from the implanted medical device indicative of the a device state;  
utilizing a processor to automatically select a subset of commands from a set of  
commands based on the received data;

displaying the implanted device state data along with the subset of commands;  
receiving a voice command selected from one of the subset of commands;  
processing the selected command via a processor and a memory arrangement,  
the memory arrangement including the set of commands along with a set of control  
signals, the control signals used for controlling the data processing instrument;  
transmitting to the data processing instrument the control signal for executing the  
selected command for performing a task on the implanted device; and  
displaying device state data generated by the data processing instrument in response to  
executing the selected command.

27. (Original) The method of claim 26, further comprising the step of generating the  
set of commands to be stored in the memory arrangement via voice commands  
provided by a user of the data processing arrangement before the step of displaying the  
device state data.

28. (Original) The method of claim 27, further comprising the step of receiving and  
authenticating a user selection code for providing access to differing levels of command  
options before the step of receiving the voice command.

29. (Original) The method of claim 26, further comprising the step of producing a  
noise-suppressed speech signal corresponding to noise suppression information  
received after the voice command is received.

30. (Previously presented) A system for controlling a medical data processing  
instrument that interfaces with an implanted medical device, the system comprising:

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means for receiving device state data from the implanted medical device and automatically selecting a subset of commands from a set of commands based upon the device state data;

means for displaying the implanted device state data along with the subset of commands;

means for receiving a voice command selected from one of the subset of commands;

means for processing the selected command via a processor and a memory arrangement, the memory arrangement including the set of commands along with a set of control signals, the control signals used for controlling the data processing instrument;

means for transmitting to the data processing instrument the control signal for executing the selected command for performing a task on the implanted device; and means for displaying device state data generated by the data processing instrument in response to executing the selected command.